

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX031325\  
 Data File : VX045281.D  
 Acq On : 13 Mar 2025 19:48  
 Operator : JC/MD  
 Sample : Q1559-17  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE104D1-20250312

Quant Time: Mar 14 12:30:29 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X022825W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 28 06:45:16 2025  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                         |                |      |                     |        |        |          |
| Internal Standards            |                |      |                     |        |        |          |
| 1) Pentafluorobenzene         | 5.550          | 168  | 71280               | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.757          | 114  | 137818              | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 125719              | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.018         | 152  | 51927               | 50.000 | ug/l   | 0.00     |
|                               |                |      |                     |        |        |          |
| System Monitoring Compounds   |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.952          | 65   | 60978               | 53.781 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = 107.560% |        |        |          |
| 35) Dibromofluoromethane      | 5.385          | 113  | 48880               | 53.041 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 106.080% |        |        |          |
| 50) Toluene-d8                | 8.647          | 98   | 172478              | 51.625 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = 103.260% |        |        |          |
| 62) 4-Bromofluorobenzene      | 11.079         | 95   | 58312               | 52.671 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 77 - 121 |      | Recovery = 105.340% |        |        |          |
|                               |                |      |                     |        |        |          |
| Target Compounds              |                |      |                     |        |        | Qvalue   |
| 3) Chloromethane              | 1.295          | 50   | 232                 | 0.211  | ug/l # | 43       |
| 9) 1,1,2-Trichlorotrifluo...  | 2.319          | 101  | 1038                | 1.253  | ug/l   | 98       |
| 11) Tert butyl alcohol        | 2.953          | 59   | 62                  | 0.289  | ug/l # | 73       |
| 16) Acetone                   | 2.380          | 43   | 1280                | 2.433  | ug/l # | 80       |
| 20) Methylene Chloride        | 2.782          | 84   | 336                 | 0.322  | ug/l # | 61       |
| 31) Cyclohexane               | 5.538          | 56   | 2001                | 1.297  | ug/l # | 16       |
| 36) 1,1-Dichloropropene       | 5.538          | 75   | 7077                | 5.600  | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 5.544          | 117  | 7766                | 6.053  | ug/l # | 15       |
| 39) Methylcyclohexane         | 7.129          | 83   | 492                 | 0.325  | ug/l # | 1        |
| 44) Trichloroethene           | 7.123          | 130  | 40894               | 43.640 | ug/l   | 99       |
| 49) 1,4-Dioxane               | 7.690          | 88   | 219                 | 8.594  | ug/l # | 73       |
| 51) 4-Methyl-2-Pentanone      | 8.647          | 43   | 993                 | 0.614  | ug/l # | 1        |
| 60) Dibromochloromethane      | 9.275          | 129  | 2092                | 2.076  | ug/l # | 11       |
| 64) Tetrachloroethene         | 9.275          | 164  | 2218                | 2.755  | ug/l   | 96       |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 33495               | 27.714 | ug/l # | 36       |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 33495               | 94.842 | ug/l # | 6        |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

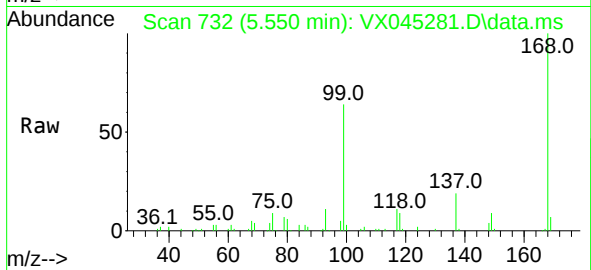
Quant Time: Mar 14 12:30:29 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X022825W.M  
Quant Title : SW846 8260  
QLast Update : Fri Feb 28 06:45:16 2025  
Response via : Initial Calibration



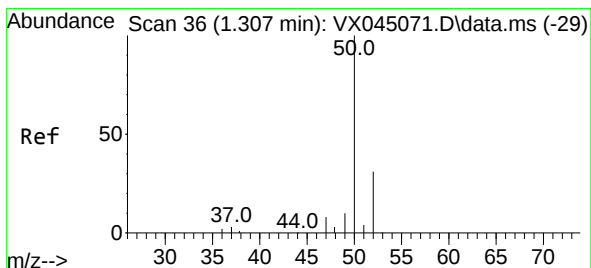
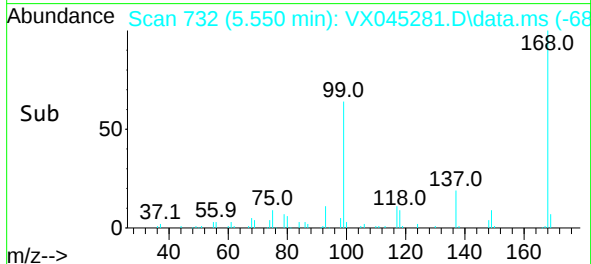
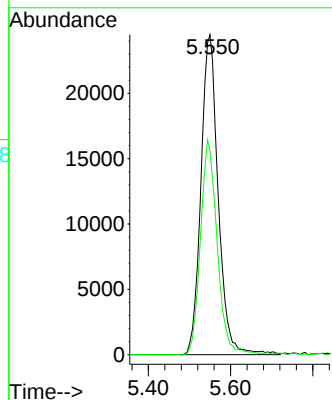


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX045281.D  
Acq: 13 Mar 2025 19:48

Instrument :  
MSVOA\_X  
ClientSampleId :  
RE104D1-20250312

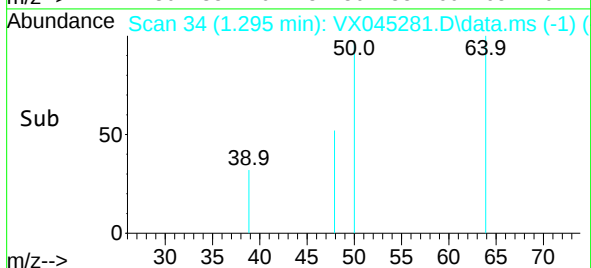
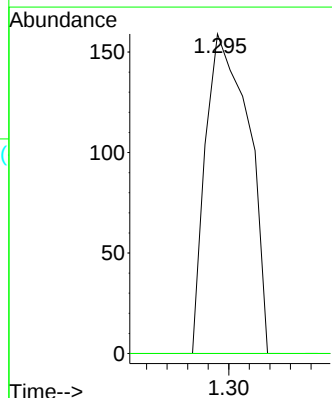
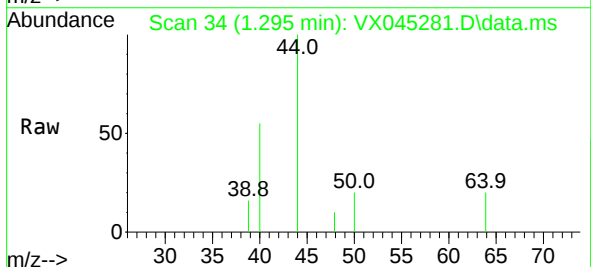


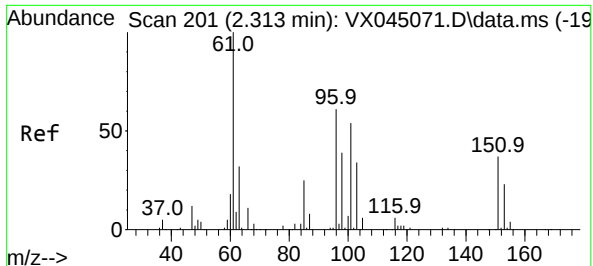
Tgt Ion:168 Resp: 71280  
Ion Ratio Lower Upper  
168 100  
99 63.8 48.2 72.4



#3  
Chloromethane  
Concen: 0.211 ug/l  
RT: 1.295 min Scan# 34  
Delta R.T. -0.012 min  
Lab File: VX045281.D  
Acq: 13 Mar 2025 19:48

Tgt Ion: 50 Resp: 232  
Ion Ratio Lower Upper  
50 100  
52 0.0 25.0 37.4#

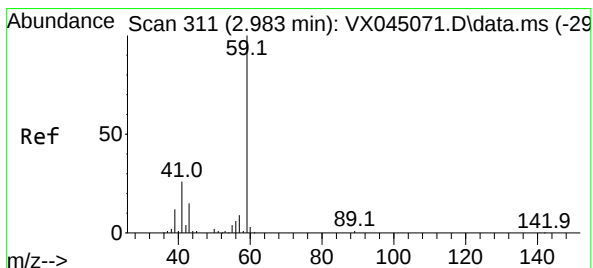
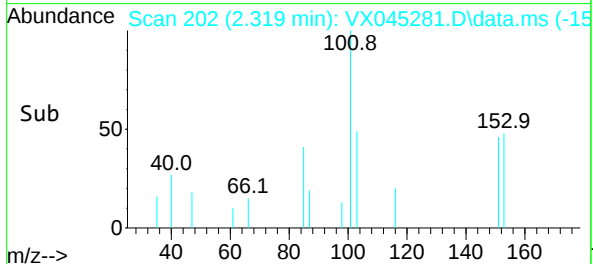
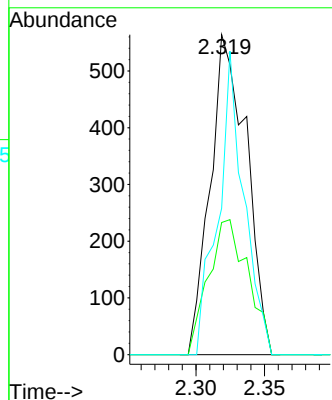
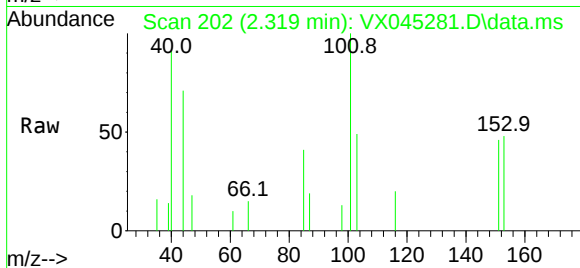




#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 1.253 ug/l  
RT: 2.319 min Scan# 201  
Delta R.T. 0.006 min  
Lab File: VX045281.D  
Acq: 13 Mar 2025 19:48

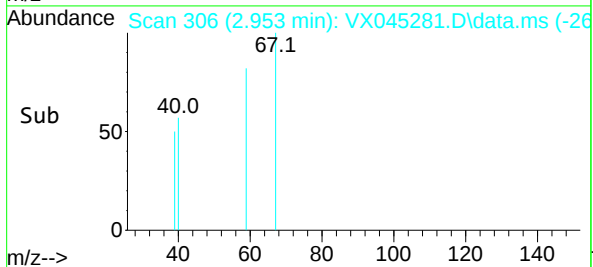
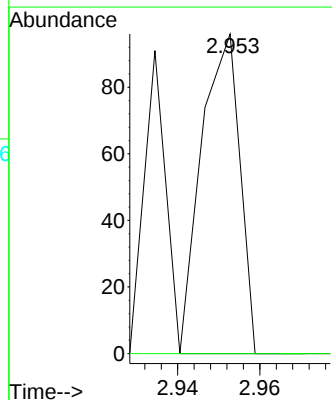
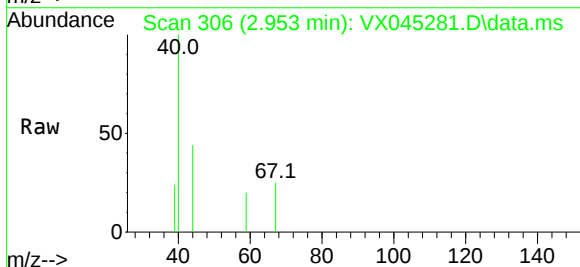
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE104D1-20250312

Tgt Ion:101 Resp: 1038  
Ion Ratio Lower Upper  
101 100  
85 46.1 36.2 54.4  
151 67.8 56.4 84.6



#11  
Tert butyl alcohol  
Concen: 0.289 ug/l  
RT: 2.953 min Scan# 306  
Delta R.T. -0.030 min  
Lab File: VX045281.D  
Acq: 13 Mar 2025 19:48

Tgt Ion: 59 Resp: 62  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.8 11.8#

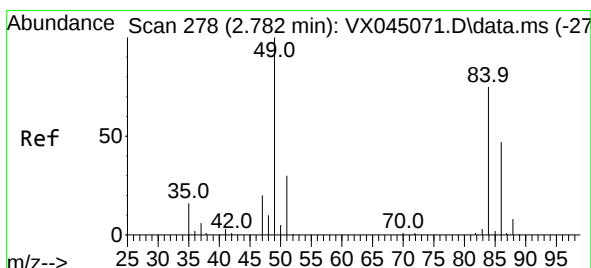
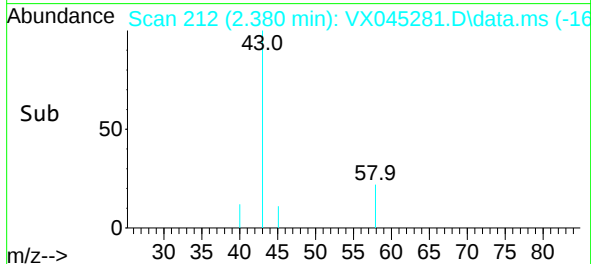
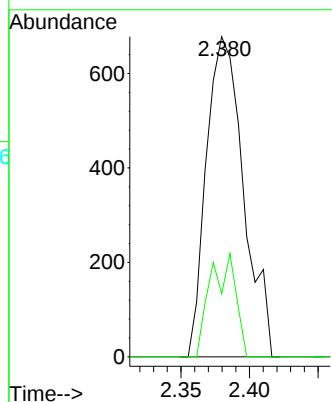
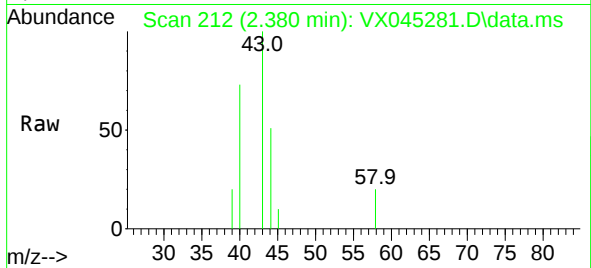




#16  
Acetone  
Concen: 2.433 ug/l  
RT: 2.380 min Scan# 213  
Delta R.T. -0.006 min  
Lab File: VX045281.D  
Acq: 13 Mar 2025 19:48

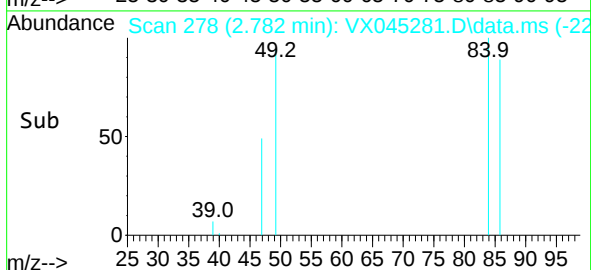
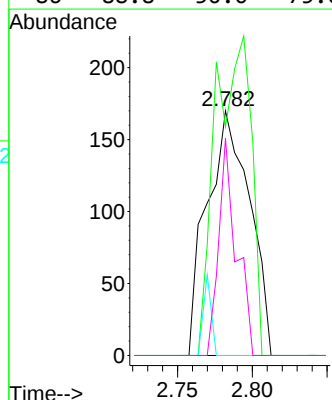
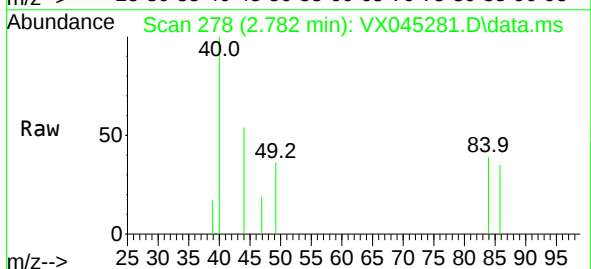
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE104D1-20250312

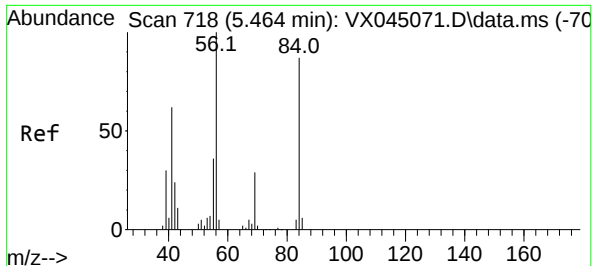
Tgt Ion: 43 Resp: 1280  
Ion Ratio Lower Upper  
43 100  
58 19.6 24.2 36.4#



#20  
Methylene Chloride  
Concen: 0.322 ug/l  
RT: 2.782 min Scan# 278  
Delta R.T. 0.000 min  
Lab File: VX045281.D  
Acq: 13 Mar 2025 19:48

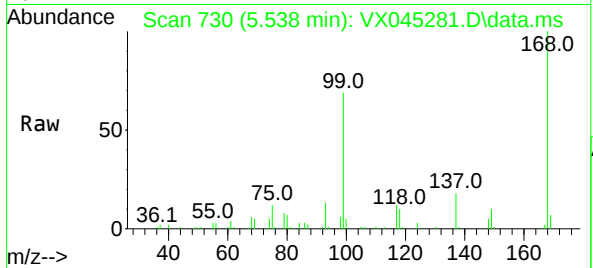
Tgt Ion: 84 Resp: 336  
Ion Ratio Lower Upper  
84 100  
49 93.5 106.5 159.7#  
51 0.0 32.1 48.1#  
86 88.8 50.0 75.0#



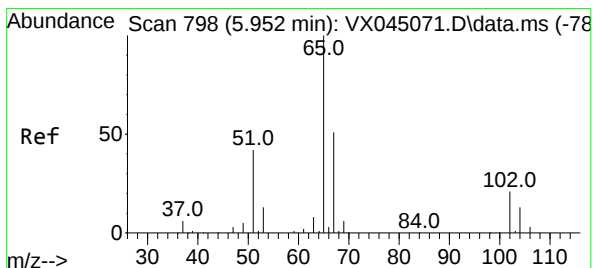
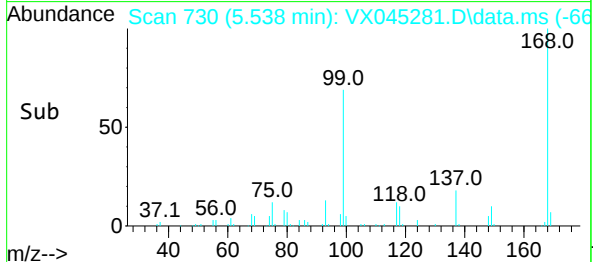
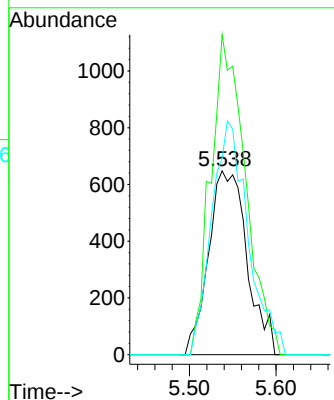


#31  
Cyclohexane  
Concen: 1.297 ug/l  
RT: 5.538 min Scan# 718  
Delta R.T. 0.073 min  
Lab File: VX045281.D  
Acq: 13 Mar 2025 19:48

Instrument :  
MSVOA\_X  
ClientSampleId :  
RE104D1-20250312

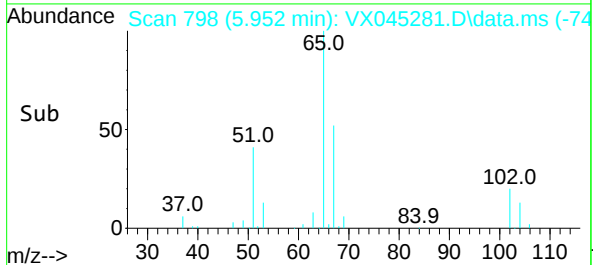
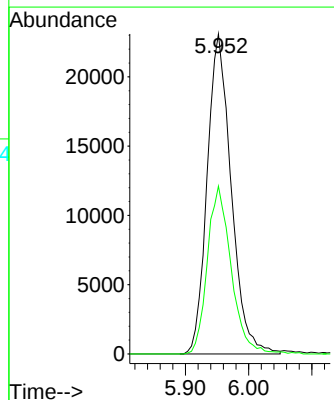
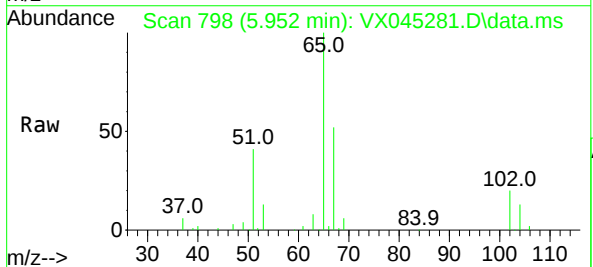


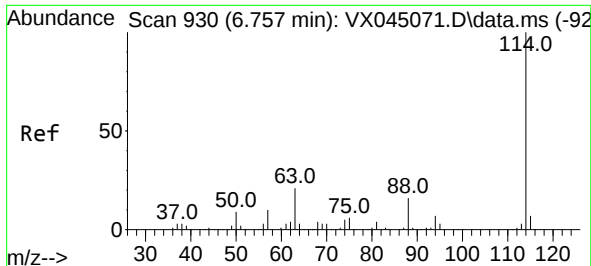
Tgt Ion: 56 Resp: 2001  
Ion Ratio Lower Upper  
56 100  
69 174.1 23.4 35.2#  
84 106.8 69.4 104.2#



#33  
1,2-Dichloroethane-d4  
Concen: 53.781 ug/l  
RT: 5.952 min Scan# 798  
Delta R.T. 0.000 min  
Lab File: VX045281.D  
Acq: 13 Mar 2025 19:48

Tgt Ion: 65 Resp: 60978  
Ion Ratio Lower Upper  
65 100  
67 51.8 0.0 106.2

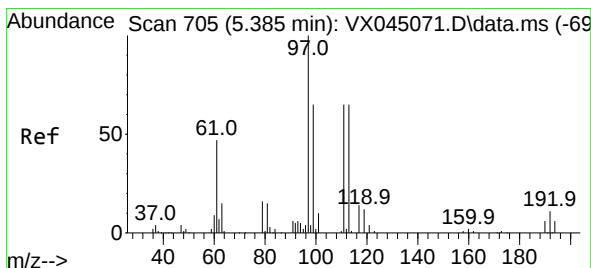
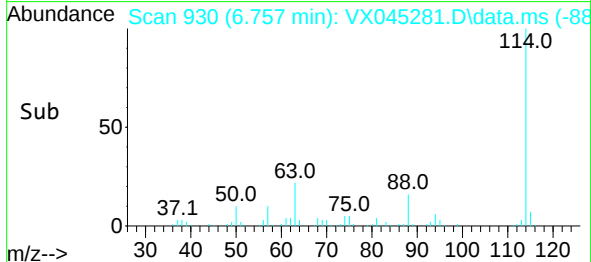
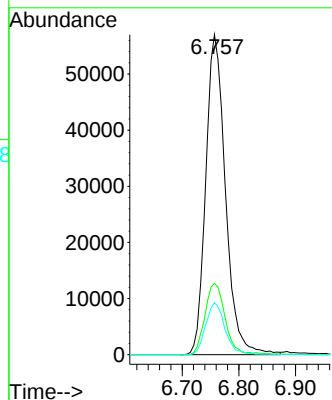
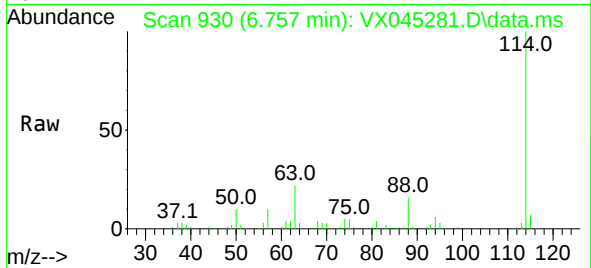




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.757 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VX045281.D  
Acq: 13 Mar 2025 19:48

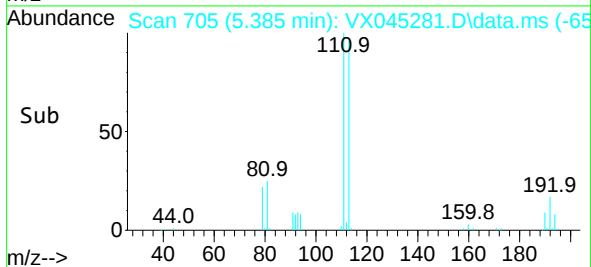
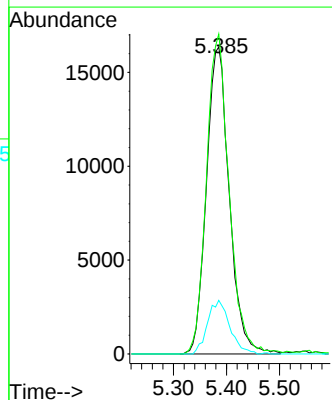
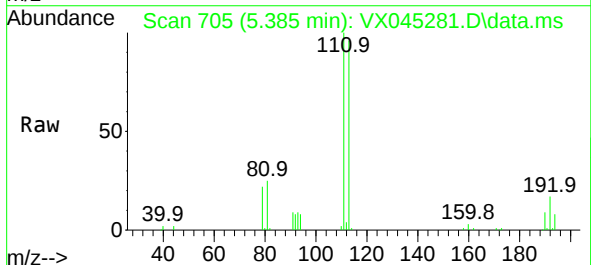
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE104D1-20250312

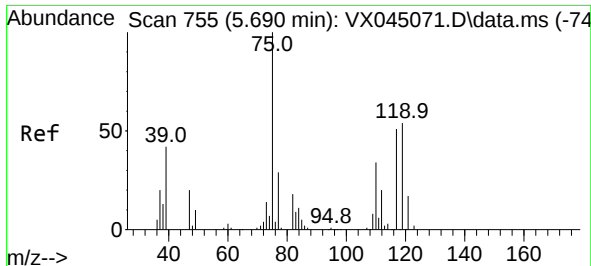
Tgt Ion:114 Resp: 137818  
Ion Ratio Lower Upper  
114 100  
63 22.3 0.0 41.8  
88 16.3 0.0 32.8



#35  
Dibromofluoromethane  
Concen: 53.041 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. 0.000 min  
Lab File: VX045281.D  
Acq: 13 Mar 2025 19:48

Tgt Ion:113 Resp: 48880  
Ion Ratio Lower Upper  
113 100  
111 103.5 81.8 122.6  
192 17.0 14.3 21.5





#36

1,1-Dichloropropene

Concen: 5.600 ug/l

RT: 5.538 min Scan# 71

Delta R.T. -0.152 min

Lab File: VX045281.D

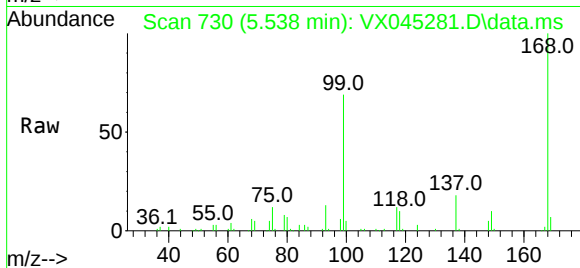
Acq: 13 Mar 2025 19:48

Instrument :

MSVOA\_X

ClientSampleId :

RE104D1-20250312



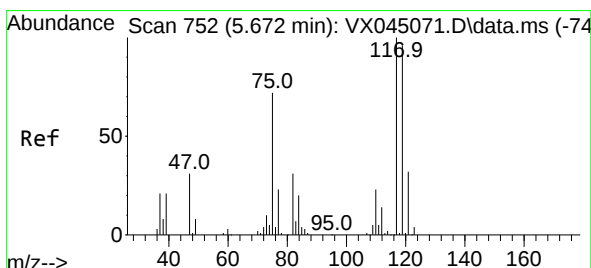
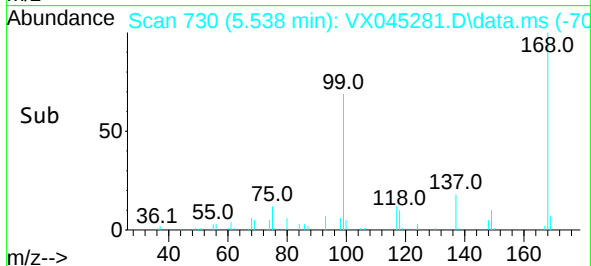
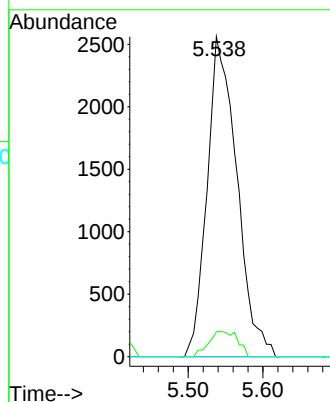
Tgt Ion: 75 Resp: 7077

Ion Ratio Lower Upper

75 100

110 7.7 16.9 50.6#

77 0.0 24.5 36.7#



#38

Carbon Tetrachloride

Concen: 6.053 ug/l

RT: 5.544 min Scan# 731

Delta R.T. -0.128 min

Lab File: VX045281.D

Acq: 13 Mar 2025 19:48

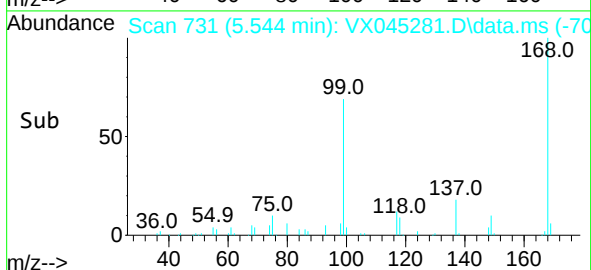
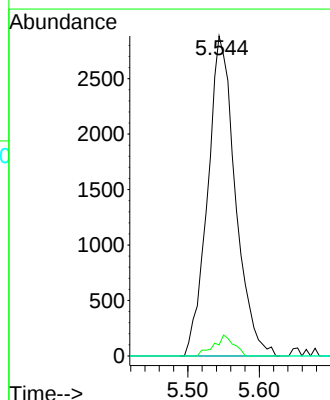
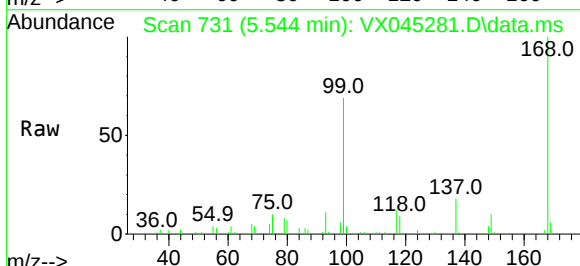
Tgt Ion: 117 Resp: 7766

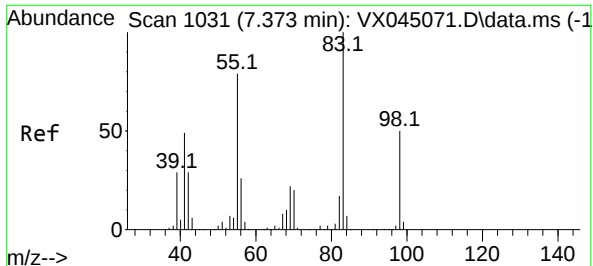
Ion Ratio Lower Upper

117 100

119 3.4 76.7 115.1#

121 0.0 25.5 38.3#





#39

Methylcyclohexane

Concen: 0.325 ug/l

RT: 7.129 min Scan# 991

Delta R.T. -0.244 min

Lab File: VX045281.D

Acq: 13 Mar 2025 19:48

Instrument :

MSVOA\_X

ClientSampleId :

RE104D1-20250312

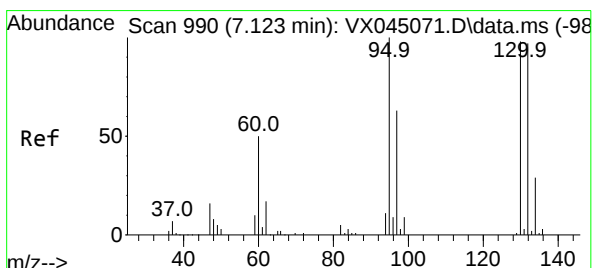
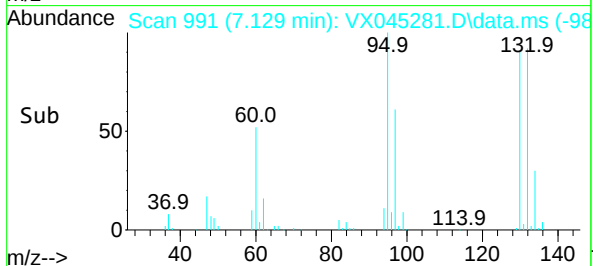
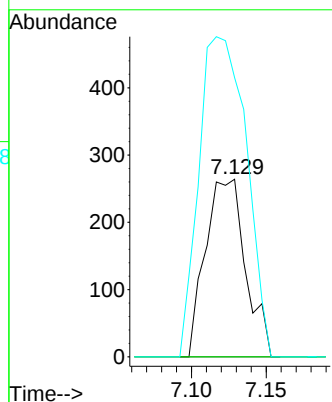
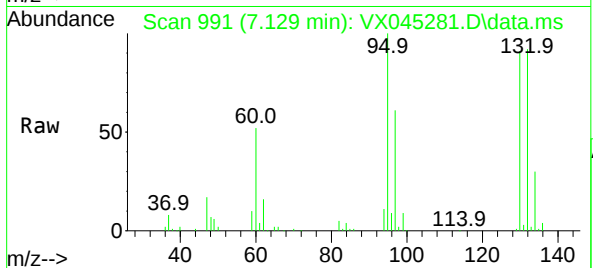
Tgt Ion: 83 Resp: 492

Ion Ratio Lower Upper

83 100

55 0.0 63.0 94.4#

98 157.2 39.7 59.5#



#44

Trichloroethene

Concen: 43.640 ug/l

RT: 7.123 min Scan# 990

Delta R.T. 0.000 min

Lab File: VX045281.D

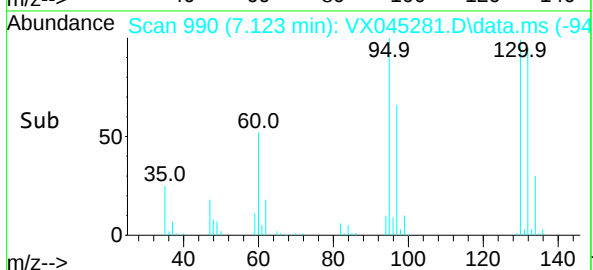
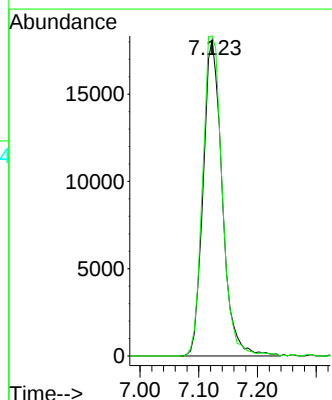
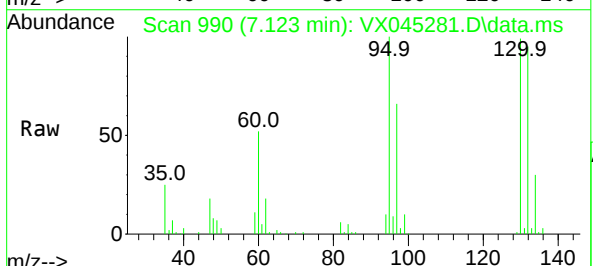
Acq: 13 Mar 2025 19:48

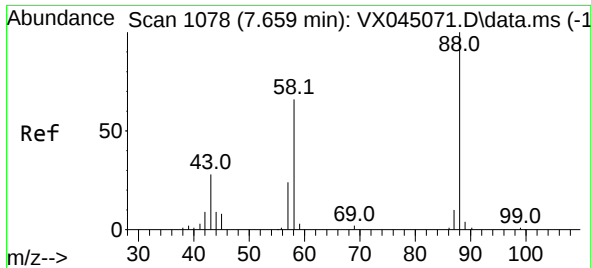
Tgt Ion:130 Resp: 40894

Ion Ratio Lower Upper

130 100

95 101.2 0.0 205.0

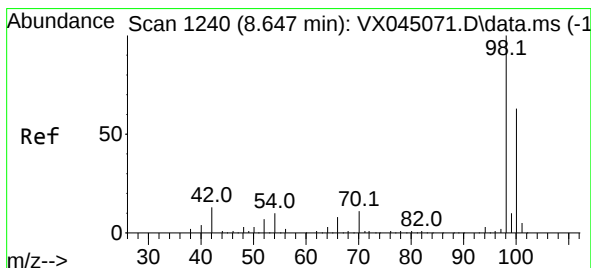
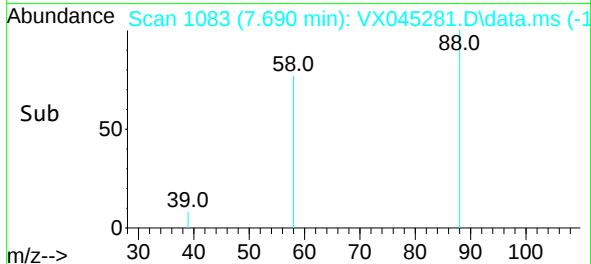
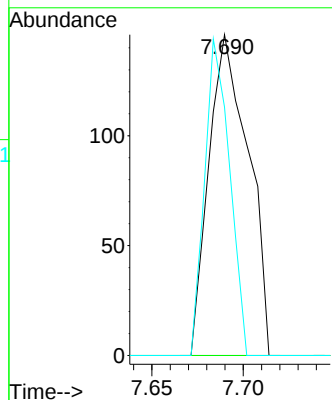
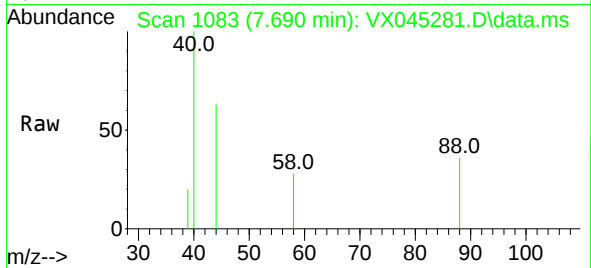




#49  
1,4-Dioxane  
Concen: 8.594 ug/l  
RT: 7.690 min Scan# 1083  
Delta R.T. 0.030 min  
Lab File: VX045281.D  
Acq: 13 Mar 2025 19:48

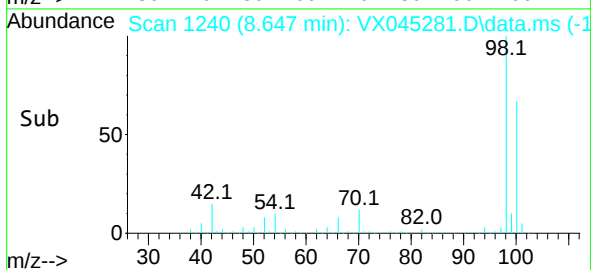
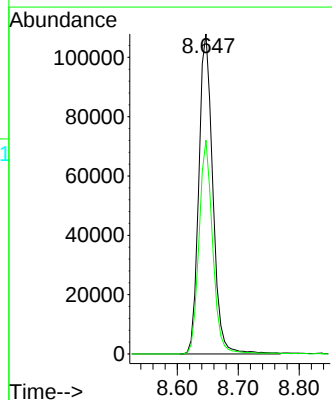
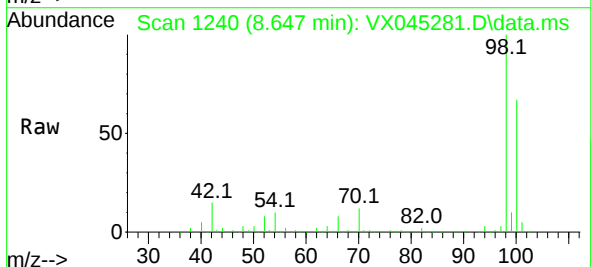
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE104D1-20250312

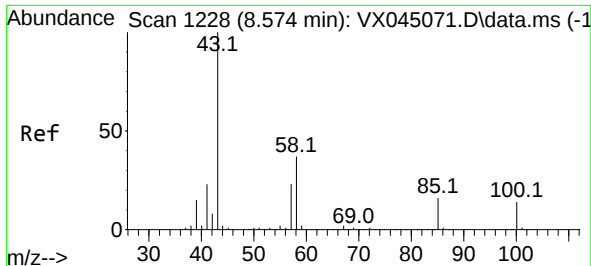
Tgt Ion: 88 Resp: 219  
Ion Ratio Lower Upper  
88 100  
43 0.0 28.7 43.1#  
58 62.1 55.8 83.8



#50  
Toluene-d8  
Concen: 51.625 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. 0.000 min  
Lab File: VX045281.D  
Acq: 13 Mar 2025 19:48

Tgt Ion: 98 Resp: 172478  
Ion Ratio Lower Upper  
98 100  
100 65.1 52.0 78.0

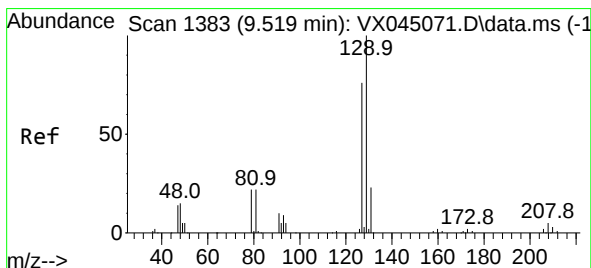
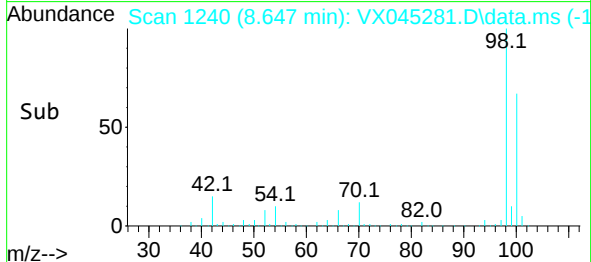
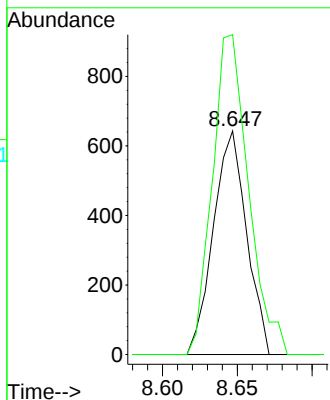
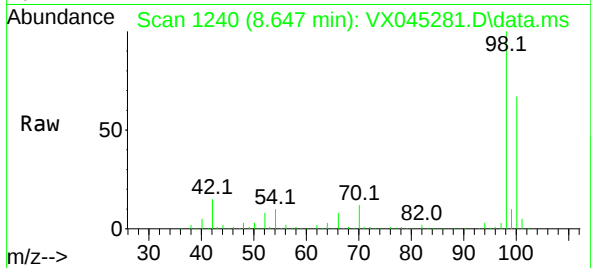




#51  
4-Methyl-2-Pentanone  
Concen: 0.614 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. 0.073 min  
Lab File: VX045281.D  
Acq: 13 Mar 2025 19:48

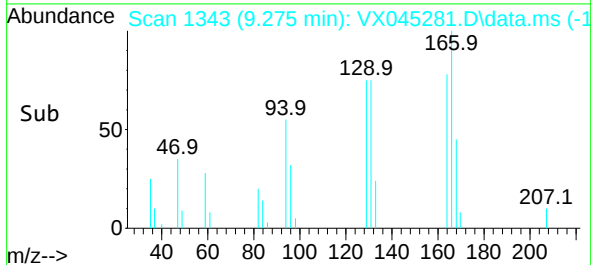
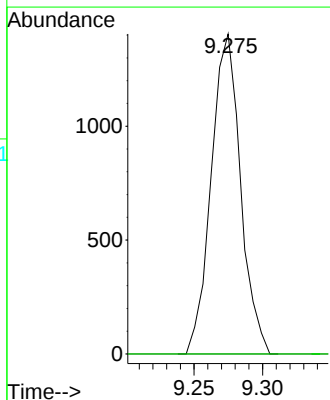
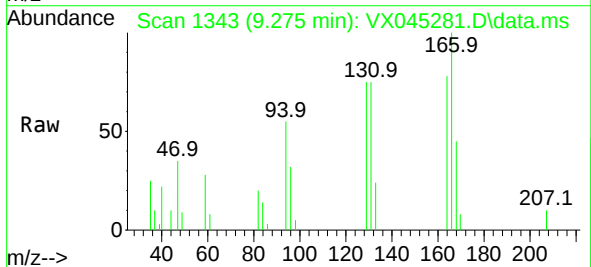
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE104D1-20250312

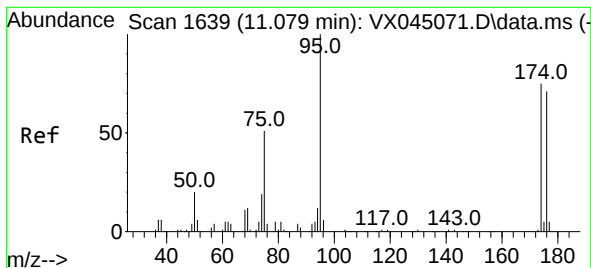
Tgt Ion: 43 Resp: 993  
Ion Ratio Lower Upper  
43 100  
58 156.1 29.2 43.8#



#60  
Dibromochloromethane  
Concen: 2.076 ug/l  
RT: 9.275 min Scan# 1343  
Delta R.T. -0.244 min  
Lab File: VX045281.D  
Acq: 13 Mar 2025 19:48

Tgt Ion: 129 Resp: 2092  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.5 115.5#

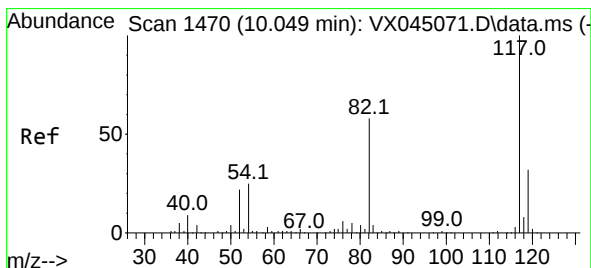
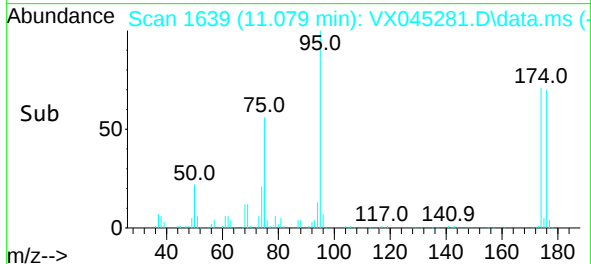
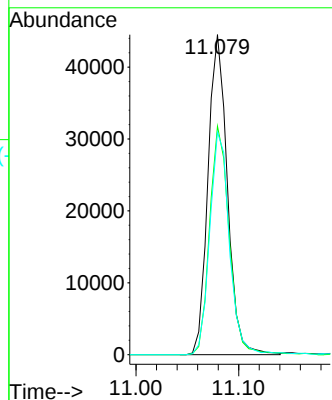
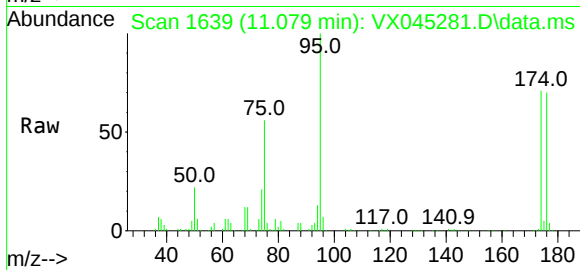




#62  
4-Bromofluorobenzene  
Concen: 52.671 ug/l  
RT: 11.079 min Scan# 1  
Delta R.T. 0.000 min  
Lab File: VX045281.D  
Acq: 13 Mar 2025 19:48

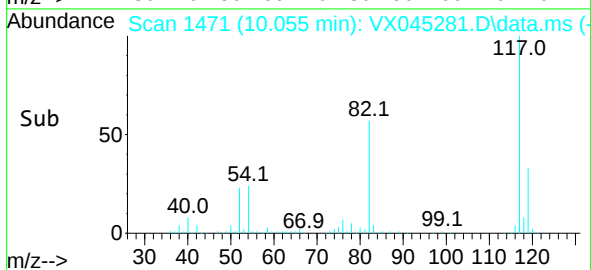
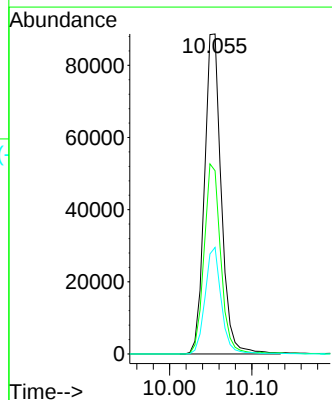
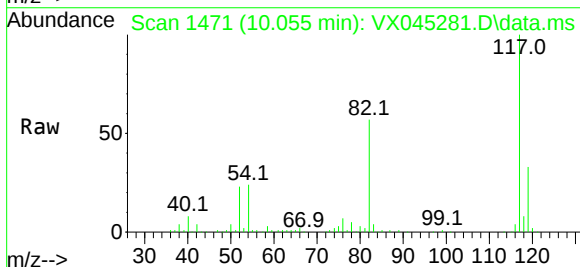
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE104D1-20250312

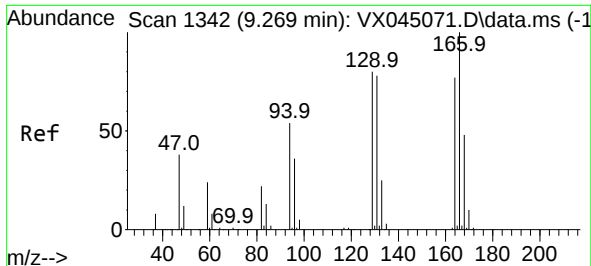
Tgt Ion: 95 Resp: 58312  
Ion Ratio Lower Upper  
95 100  
174 72.5 0.0 148.2  
176 70.9 0.0 141.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.006 min  
Lab File: VX045281.D  
Acq: 13 Mar 2025 19:48

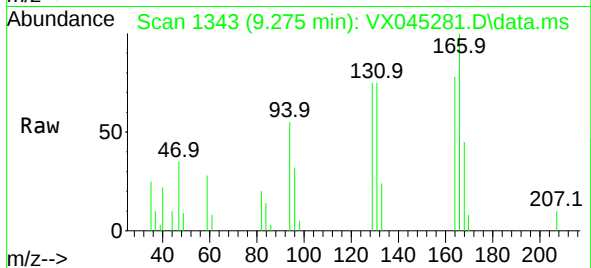
Tgt Ion: 117 Resp: 125719  
Ion Ratio Lower Upper  
117 100  
82 57.2 46.3 69.5  
119 33.3 25.7 38.5





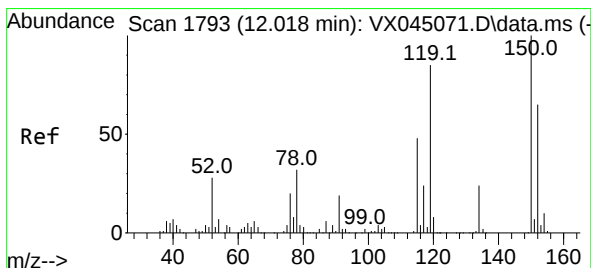
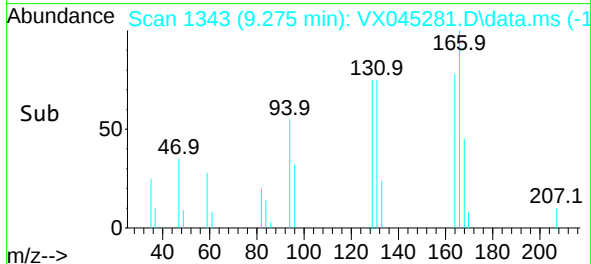
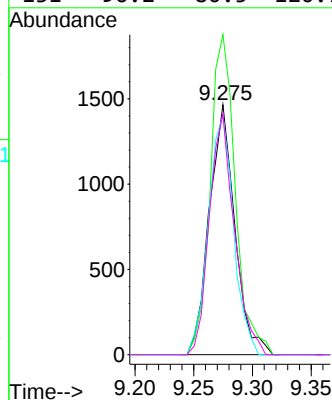
#64  
Tetrachloroethene  
Concen: 2.755 ug/l  
RT: 9.275 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VX045281.D  
Acq: 13 Mar 2025 19:48

Instrument :  
MSVOA\_X  
ClientSampleId :  
RE104D1-20250312



Tgt Ion:164 Resp: 2218

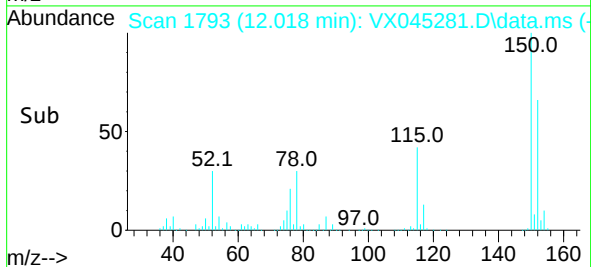
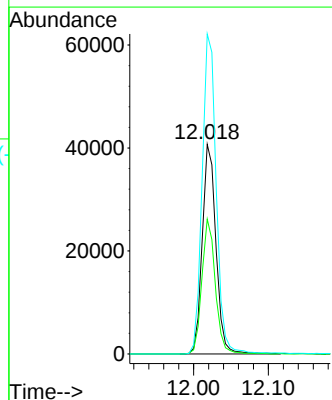
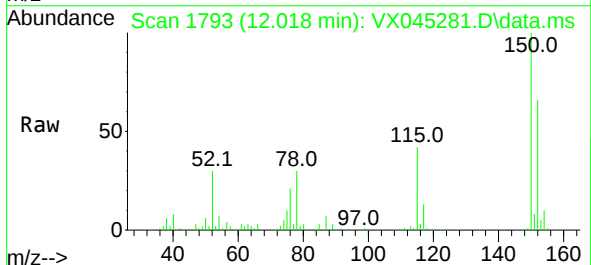
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 166 | 128.1 | 103.6 | 155.4 |
| 129 | 95.9  | 82.7  | 124.1 |
| 131 | 96.2  | 80.5  | 120.7 |

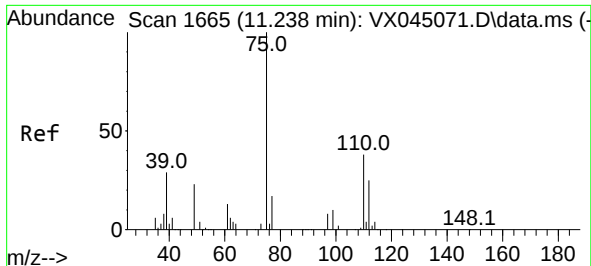


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.018 min Scan# 1793  
Delta R.T. 0.000 min  
Lab File: VX045281.D  
Acq: 13 Mar 2025 19:48

Tgt Ion:152 Resp: 51927

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 152 | 100   |       |       |
| 115 | 63.1  | 44.2  | 132.6 |
| 150 | 157.2 | 0.0   | 349.0 |

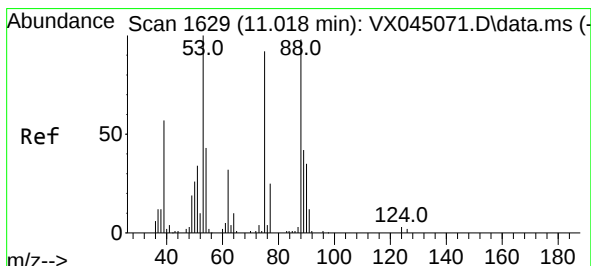
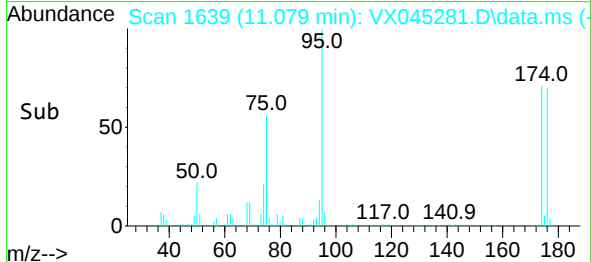
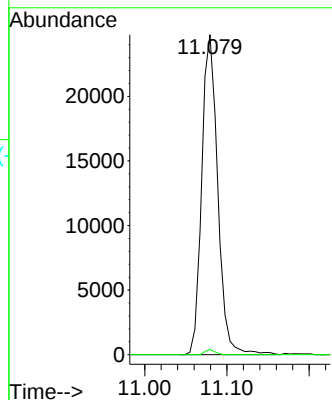
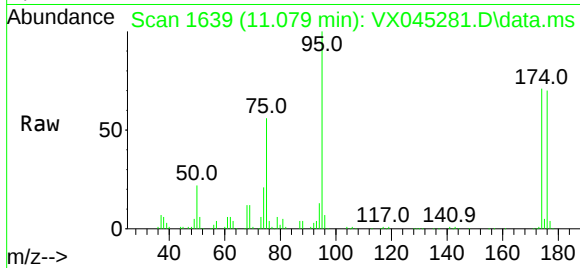




#76  
1,2,3-Trichloropropane  
Concen: 27.714 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.159 min  
Lab File: VX045281.D  
Acq: 13 Mar 2025 19:48

Instrument :  
MSVOA\_X  
ClientSampleId :  
RE104D1-20250312

Tgt Ion: 75 Resp: 33495  
Ion Ratio Lower Upper  
75 100  
77 1.0 20.7 62.1#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 94.842 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX045281.D  
Acq: 13 Mar 2025 19:48

Tgt Ion: 75 Resp: 33495  
Ion Ratio Lower Upper  
75 100  
53 0.0 88.5 132.7#  
89 0.1 36.2 54.4#

